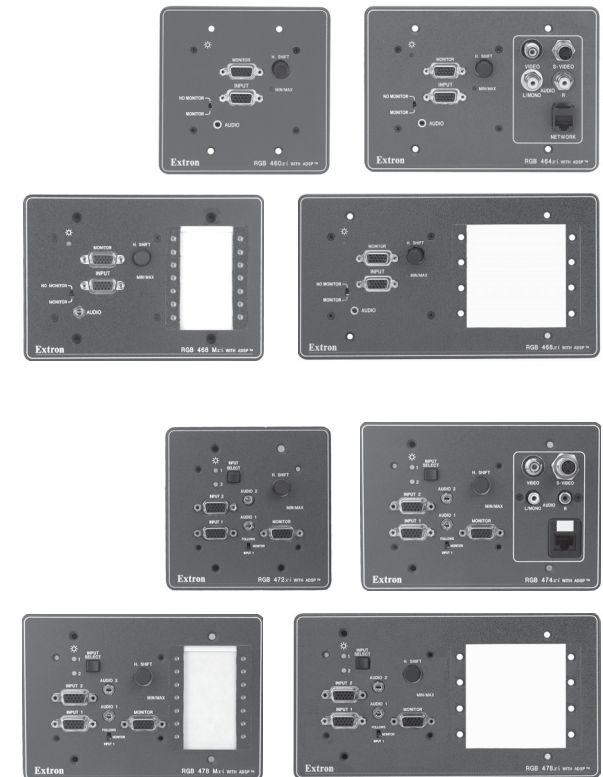


Installation Guide



RGB 400xi Series Installation Guide

Wall Box-Mountable Interfaces with Euro Channel versions

68-636-03 **Rev. B**
Printed in the USA
05 03

Precautions

Safety Instructions • English



This symbol is intended to alert the user of important operating and maintenance (servicing) instructions in the literature provided with the equipment.



This symbol is intended to alert the user of the presence of uninsulated dangerous voltage within the product's enclosure that may present a risk of electric shock.

Caution

Read Instructions • Read and understand all safety and operating instructions before using the equipment.

Retain Instructions • The safety instructions should be kept for future reference.

Follow Warnings • Follow all warnings and instructions marked on the equipment or in the user information.

Avoid Attachments • Do not use tools or attachments that are not recommended by the equipment manufacturer because they may be hazardous.

Consignes de Sécurité • Français



Ce symbole sert à avertir l'utilisateur que la documentation fournie avec le matériel contient des instructions importantes concernant l'exploitation et la maintenance (réparation).



Ce symbole sert à avertir l'utilisateur de la présence dans le boîtier de l'appareil de tensions dangereuses non isolées posant des risques d'électrocution.

Attention

Lire les instructions • Prendre connaissance de toutes les consignes de sécurité et d'exploitation avant d'utiliser le matériel.

Conservier les instructions • Ranger les consignes de sécurité afin de pouvoir les consulter à l'avenir.

Respecter les avertissements • Observer tous les avertissements et consignes marqués sur le matériel ou présentés dans la documentation utilisateur.

Eviter les pièces de fixation • Ne pas utiliser de pièces de fixation ni d'outils non recommandés par le fabricant du matériel car cela risquerait de poser certains dangers.

Sicherheitsanleitungen • Deutsch



Dieses Symbol soll dem Benutzer in der im Lieferumfang enthaltenen Dokumentation besonders wichtige Hinweise zur Bedienung und Wartung (Instandhaltung) geben.



Dieses Symbol soll den Benutzer darauf aufmerksam machen, daß im Inneren des Gehäuses dieses Produktes gefährliche Spannungen, die nicht isoliert sind und die einen elektrischen Schock verursachen können, herrschen.

Achtung

Lesen der Anleitungen • Bevor Sie das Gerät zum ersten Mal verwenden, sollten Sie alle Sicherheits- und Bedienungsanleitungen genau durchlesen und verstehen.

Aufbewahren der Anleitungen • Die Hinweise zur elektrischen Sicherheit des Produktes sollten Sie aufbewahren, damit Sie im Bedarfsfall darauf zurückgreifen können.

Befolgen der Warnhinweise • Befolgen Sie alle Warnhinweise und Anleitungen auf dem Gerät oder in der Benutzerdokumentation.

Keine Zusatzgeräte • Verwenden Sie keine Werkzeuge oder Zusatzgeräte, die nicht ausdrücklich vom Hersteller empfohlen wurden, da diese eine Gefahrenquelle darstellen können.

Instrucciones de seguridad • Español



Este símbolo se utiliza para advertir al usuario sobre instrucciones importantes de operación y mantenimiento (o cambio de partes) que se desean destacar en el contenido de la documentación suministrada con los equipos.



Este símbolo se utiliza para advertir al usuario sobre la presencia de elementos con voltaje peligroso sin protección aislante, que puedan encontrarse dentro de la caja o alojamiento del producto, y que puedan representar riesgo de electrocución.

Precaucion

Leer las instrucciones • Leer y analizar todas las instrucciones de operación y seguridad, antes de usar el equipo.

Conservar las instrucciones • Conservar las instrucciones de seguridad para futura consulta.

Obedecer las advertencias • Todas las advertencias e instrucciones marcadas en el equipo o en la documentación del usuario, deben ser obedecidas.

Evitar el uso de accesorios • No usar herramientas o accesorios que no sean específicamente recomendados por el fabricante, ya que podrían implicar riesgos.

Warning

Power sources • This equipment should be operated only from the power source indicated on the product. This equipment is intended to be used with a main power system with a grounded (neutral) conductor. The third (grounding) pin is a safety feature, do not attempt to bypass or disable it.

Power disconnection • To remove power from the equipment safely, remove all power cords from the rear of the equipment, or the desktop power module (if detachable), or from the power source receptacle (wall plug).

Power cord protection • Power cords should be routed so that they are not likely to be stepped on or pinched by items placed upon or against them.

Servicing • Refer all servicing to qualified service personnel. There are no user-serviceable parts inside. To prevent the risk of shock, do not attempt to service this equipment yourself because opening or removing covers may expose you to dangerous voltage or other hazards.

Slots and openings • If the equipment has slots or holes in the enclosure, these are provided to prevent overheating of sensitive components inside. These openings must never be blocked by other objects.

Lithium battery • There is a danger of explosion if battery is incorrectly replaced. Replace it only with the same or equivalent type recommended by the manufacturer. Dispose of used batteries according to the manufacturer's instructions.

Avertissement

Alimentations • Ne faire fonctionner ce matériel qu'avec la source d'alimentation indiquée sur l'appareil. Ce matériel doit être utilisé avec une alimentation principale comportant un fil de terre (neutre). Le troisième contact (de mise à la terre) constitue un dispositif de sécurité : n'essayez pas de la contourner ni de la désactiver.

Déconnexion de l'alimentation • Pour mettre le matériel hors tension sans danger, déconnectez tous les cordons d'alimentation de l'arrière de l'appareil ou du module d'alimentation de bureau (s'il est amovible) ou encore de la prise secteur.

Protection du cordon d'alimentation • Acheminer les cordons d'alimentation de manière à ce que personne ne risque de marcher dessus et à ce qu'ils ne soient pas écrasés ou pincés par des objets.

Réparation-maintenance • Faire exécuter toutes les interventions de réparation-maintenance par un technicien qualifié. Aucun des éléments internes ne peut être réparé par l'utilisateur. Afin d'éviter tout danger d'électrocution, l'utilisateur ne doit pas essayer de procéder lui-même à ces opérations car l'ouverture ou le retrait des couvercles risquent de l'exposer à de hautes tensions et autres dangers.

Fentes et orifices • Si le boîtier de l'appareil comporte des fentes ou des orifices, ceux-ci servent à empêcher les composants internes sensibles de surchauffer. Ces ouvertures ne doivent jamais être bloquées par des objets.

Lithium Batterie • Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avec une batterie du même type ou d'un type équivalent recommandé par le constructeur. Mettre au rebut les batteries usagées conformément aux instructions du fabricant.

Vorsicht

Stromquellen • Dieses Gerät sollte nur über die auf dem Produkt angegebene Stromquelle betrieben werden. Dieses Gerät wurde für eine Verwendung mit einer Hauptstromleitung mit einem geerdeten (neutralen) Leiter konzipiert. Der dritte Kontakt ist für einen Erdschluss, und stellt eine Sicherheitsfunktion dar. Diese sollte nicht umgangen oder außer Betrieb gesetzt werden.

Stromunterbrechung • Um das Gerät auf sichere Weise vom Netz zu trennen, sollten Sie alle Netzkabel aus der Rückseite des Gerätes, aus der externen Stromversorgung (falls dies möglich ist) oder aus der Wandsteckdose ziehen.

Schutz des Netzkabels • Netzkabel sollten stets so verlegt werden, daß sie nicht im Weg liegen und niemand darauf treten kann oder Objekte darauf oder unmittelbar dagegestellt werden können.

Wartung • Alle Wartungsmaßnahmen sollten nur von qualifiziertem Servicepersonal durchgeführt werden. Die internen Komponenten des Gerätes sind wartungsfrei. Zur Vermeidung eines elektrischen Schocks versuchen Sie in keinem Fall, dieses Gerät selbst öffnen, da beim Entfernen der Abdeckungen die Gefahr eines elektrischen Schlags und/oder andere Gefahren bestehen.

Schlitze und Öffnungen • Wenn das Gerät Schlitze oder Löcher im Gehäuse aufweist, dienen diese zur Vermeidung einer Überhitzung der empfindlichen Teile im Inneren. Diese Öffnungen dürfen niemals von anderen Objekten blockiert werden.

Litium-Batterie • Explosionsgefahr, falls die Batterie nicht richtig ersetzt wird. Ersetzen Sie verbrauchte Batterien nur durch den gleichen oder einen vergleichbaren Batterietyp, der auch vom Hersteller empfohlen wird. Entsorgen Sie verbrauchte Batterien bitte gemäß den Herstelleranweisungen.

Advertencia

Alimentación eléctrica • Este equipo debe conectarse únicamente a la fuente/tipo de alimentación eléctrica indicado en el mismo. La alimentación eléctrica de este equipo debe provenir de un sistema de distribución general con conductor neutro a tierra. La tercera pata (puesta a tierra) es una medida de seguridad, no puentearla ni eliminarla.

Desconexión de alimentación eléctrica • Para desconectar con seguridad la acometida de alimentación eléctrica al equipo, desenchufar todos los cables de alimentación en el panel trasero del equipo, o desenchufar el módulo de alimentación (si fuera independiente), o desenchufar el cable del receptáculo de la pared.

Protección del cables de alimentación • Los cables de alimentación eléctrica se deben instalar en lugares donde no sean pisados ni apretados por objetos que se puedan apoyar sobre ellos.

Reparaciones/mantenimiento • Solicitar siempre los servicios técnicos de personal calificado. En el interior no hay partes a las que el usuario deba acceder. Para evitar riesgo de electrocución, no intentar personalmente la reparación/ mantenimiento de este equipo, ya que al abrir o extraer las tapas puede quedar expuesto a voltajes peligrosos u otros riesgos.

Ranuras y aberturas • Si el equipo posee ranuras o orificios en su caja/alojamiento, es para evitar el sobrecalentamiento de componentes internos sensibles. Estas aberturas nunca se deben obstruir con otros objetos.

Batería de litio • Existe riesgo de explosión si esta batería se coloca en la posición incorrecta. Cambiar esta batería únicamente con el mismo tipo (o su equivalente) recomendado por el fabricante. Desachar las baterías usadas siguiendo las instrucciones del fabricante.

Extron's Warranty

Extron Electronics warrants this product against defects in materials and workmanship for a period of three years from the date of purchase. In the event of malfunction during the warranty period attributable directly to faulty workmanship and/or materials, Extron Electronics will, at its option, repair or replace said products or components, to whatever extent it shall deem necessary to restore said product to proper operating condition, provided that it is returned within the warranty period, with proof of purchase and description of malfunction to:

USA, Canada, South America, and Central America:

Extron Electronics
1230 South Lewis Street
Anaheim, CA 92805, USA

Europe, Africa, and the Middle East:

Extron Electronics, Europe
Beeldschermweg 6C
3821 AH Amersfoort
The Netherlands

Asia:

Extron Electronics, Asia
135 Joo Seng Road, #04-01
PM Industrial Bldg.
Singapore 368363

Japan:

Extron Electronics, Japan
Daisan DMJ Bldg. 6F,
3-9-1 Kudan Minami
Chiyoda-ku, Tokyo 102-0074
Japan

This Limited Warranty does not apply if the fault has been caused by misuse, improper handling care, electrical or mechanical abuse, abnormal operating conditions or non-Extron authorized modification to the product.

If it has been determined that the product is defective, please call Extron and ask for an Applications Engineer at (714) 491-1500 (USA), 31.33.453.4040 (Europe), 65.6383.4400 (Asia), or 81.3.3511.7655 (Japan) to receive an RA# (Return Authorization number). This will begin the repair process as quickly as possible.

Units must be returned insured, with shipping charges prepaid. If not insured, you assume the risk of loss or damage during shipment. Returned units must include the serial number and a description of the problem, as well as the name of the person to contact in case there are any questions.

Extron Electronics makes no further warranties either expressed or implied with respect to the product and its quality, performance, merchantability, or fitness for any particular use. In no event will Extron Electronics be liable for direct, indirect, or consequential damages resulting from any defect in this product even if Extron Electronics has been advised of such damage.

Please note that laws vary from state to state and country to country, and that some provisions of this warranty may not apply to you.

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All trademarks mentioned in this manual are the properties of their respective owners.

About this Guide

This guide contains installation information for the Extron RGB 400 Series of interfaces. These interfaces are designed to fit into standard 2-, 3-, and 4-gang electrical wall boxes. The EC versions of these interfaces are designed to fit into a Euro Channel. The following models will fit the indicated wall box or channel:

- **RGB 460 χ i and RGB 472 χ i*** – A standard, 2-gang electrical wall box.
- **RGB 464 χ i, RGB 474 χ i, RGB 468 M χ i, and RGB 478 M χ i*** – A standard, 3-gang electrical wall box.
- **RGB 460 χ i Dual, RGB 468 χ i, and RGB 478 χ i *** – A standard, 4-gang electrical wall box.
- **RGB 460 χ i EC, RGB 472 χ i EC, RGB 468 χ i EC, and RGB 478 χ i EC** – Standard Euro Channel.

“RGB 400 χ i” or “interface” will be used to refer to all models interchangeably unless otherwise noted.

For information about wiring, cabling, and operating the interface, refer to the user’s manual for your specific product.

* These interfaces are also wall/furniture mountable and come with a matching mud ring kit (part #70-086-xx), as well.

Installation Overview

CAUTION *Installation and service must be performed by authorized personnel only. UL Listed electrical boxes are recommended. See the section on “UL Requirements”.*

To install and set up an RGB 400 χ i Series interface, follow these steps:

- 1 Turn all of the equipment off. Make sure that the computer, the interface, and the output devices (projector/monitor, speakers) are all turned off and disconnected from the power source.
- 2 If applicable, prepare the site: cut a hole in the wall/furniture, install the electrical box or mud ring, and prepare the cables. Instructions are included in this manual and/or with the wall box (see “Preparing the site and installing the wall box”). For installation of the Euro Channel (EC model) interfaces, see the sections on “Euro Channel versions” and “Euro Channel installation”.

- 3 Attach the cables. See “Front panel features and cabling” and “Rear panel features and cabling” in the user’s manual specific to your product.
- 4 Set the rear panel DIP switches. Use the “Rear panel features and cabling” section in the user’s manual specific to your product.
- 5 Connect power cords and turn on the projector/monitor and audio device, the interface, and the computer.
- 6 The picture should now appear, and sound should be audible. If not, ensure that all devices are plugged in and receiving power. Check the cabling and the DIP switch settings, and make adjustments as needed.
- 7 Disconnect power from all the devices.
- 8 Mount the interface into the electrical box. See the sections on “Mounting the optional AAP device” and “Mounting the interface to the wall box” in this guide.
- 9 Restore power to the devices.

UL Requirements

The following Underwriters Laboratories (UL) requirements listed pertain to the installation of the RGB 400*xi* series of interfaces into a wall or furniture.

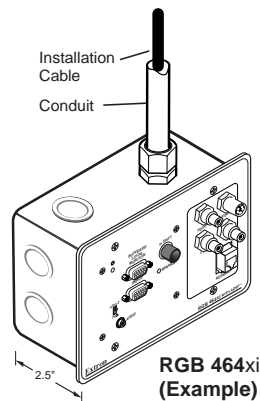
1. These units are not to be connected to a centralized DC power source or used beyond their rated voltage range.
2. These units must be installed in UL listed junction boxes.
3. These units must be installed with conduit in accordance with the National Electrical Code.

Installation Procedures

All of the interfaces can be mounted into a wall or furniture. Follow the instructions appropriate to the mounting option you have selected. Templates for optional faceplates are not detailed in this manual.

CAUTION

The interface must be installed into an Underwriters Laboratories (UL) approved electrical wall box.



Preparing the site and installing the wall box

Choose a location that will allow cable runs without interference. Allow enough depth for both the wall box and the cables. You may need to install the cables into the wall, furniture, or conduits before installing the interface.

The installation must conform to national and local electrical codes and to the equipment’s size requirements. Actual-size cut-out templates are provided in appendix A of this manual.

Installation using a UL listed wall box (available from Extron) is recommended for most mounting options, but the included mud rings can be used instead. All wall boxes must be at least 2.50” deep.

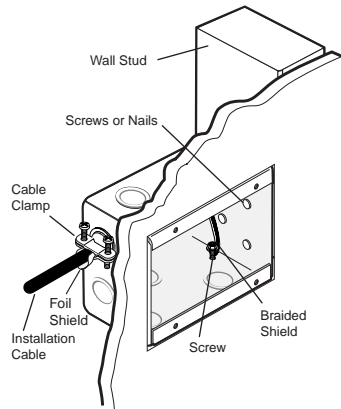
NOTE *Before using the mud rings, verify that the installation will conform to national and local electrical codes.*

The RGB 460*xi* and RGB 472*xi* will install in a two-gang wall box, the RGB 464*xi*, RGB 474*xi*, RGB 468 M*xi*, and RGB 478 M*xi* will install in a three-gang wall box, and the RGB 460*xi* Dual, RGB 468*xi*, and RGB 478*xi* will install in a four-gang wall box.

The RGB 468*xi* and RGB 478*xi* faceplates accept up to four single height Extron Architectural Adapter Plates (AAPs) and the RGB 468 M*xi* and RGB 478 M*xi* faceplates accept up to four single height Extron mini-AAPs.

- 1a. If you are using a wall box, make a 100% size photocopy of the cut-out template that corresponds to the faceplate you are using, and cut out the center portion of it as indicated on the template.
- 1b. If you are using a mud ring, use the template that came with the mud ring. Cut out the indicated center portion.
2. Place the template (or the wall box or mud ring) against the installation surface, and mark the guidelines for the opening on the wall or furniture.
3. Cut out the wall/furniture material from the marked area.
4. Check the opening size by inserting the wall box, mud ring, or interface into the opening. The box or mud ring (if used) and/or interface should fit easily into the opening. Enlarge or smooth the edges of the opening if needed.

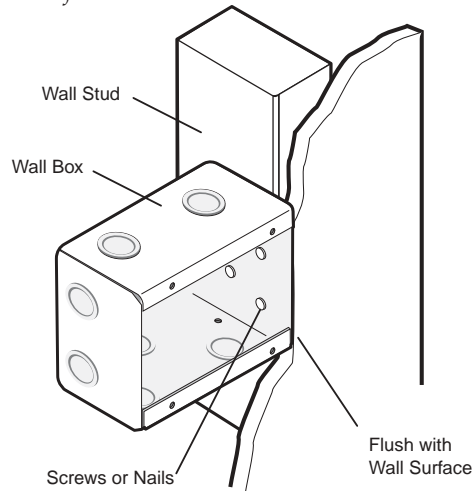
5. Feed cables through the wall box punch-out holes, and secure them with cable clamps to provide strain relief.
6. Exposed cable shields (braids or foil) are potential sources of short circuits. Trim back and/or insulate shields with heat shrink, if needed.



Grounding outer braided and foil shields

WARNING

To prevent short circuits, the outer foil shield can be cut back to the point where the cable exits the cable clamp. Both braided and foil shields should be connected to an equipment ground at the other end of the cable.



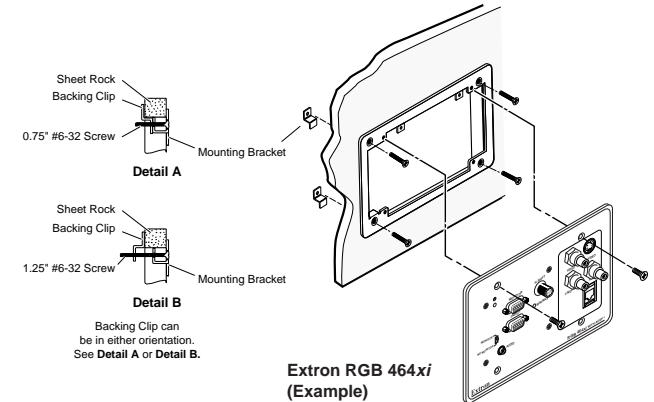
Attaching a wall box to a wall stud

- 7a. If you are using a wall box, insert the wall box into the opening, and attach it to the wall stud/furniture with

nails or screws, leaving the front edge flush with the outer wall or furniture surface. The illustration applies to all sizes of wall boxes.

If attaching the wall box to wood, use four #8 or #10 screws or 10-penny nails. A minimum of 1/2 inch (1.3 cm) of screw threads must penetrate the wood.

If attaching the wall box to metal studs or furniture, use four #8 or #10 self-tapping sheet metal screws or machine bolts with matching nuts.



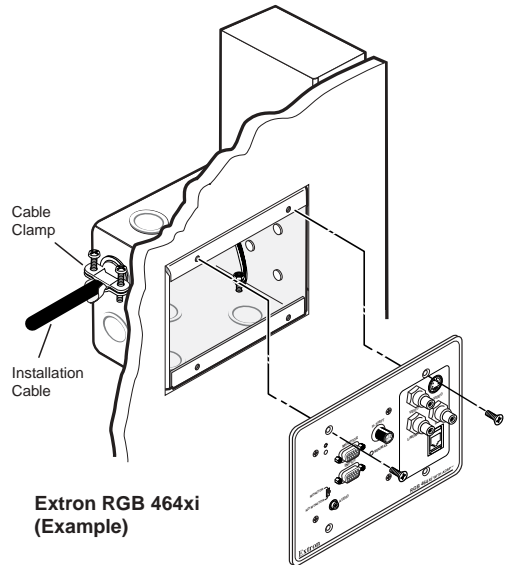
Example of a mud ring installation

- 7b. If you are using a mud ring, follow the directions, if any, that came with the mud ring to attach the clips that fasten the ring to the wall or furniture.
8. Cable and test the interface before fastening it into the wall box, mud ring, or furniture.
9. Set the gain/peaking switch and the DIP switches, and cable and test the interface before fastening the interface into the wall box. *The switches and cables will be inaccessible after installation.* See the section on "Rear panel features and cabling" in the user's manual specific to your product.

Mounting the interface to the wall box

1. Remove power from the interface by disconnecting the power supply.
2. Place the interface through the opening in the wall or furniture and into the wall box. Take care not to damage the cables, which fit behind the interface, at the back of the wall box.

3. Mount the interface's faceplate to the wall box with machine screws, as shown in the following illustration.



Mounting the interface to the wall box

4. Reconnect the power supply and restore power to the equipment.

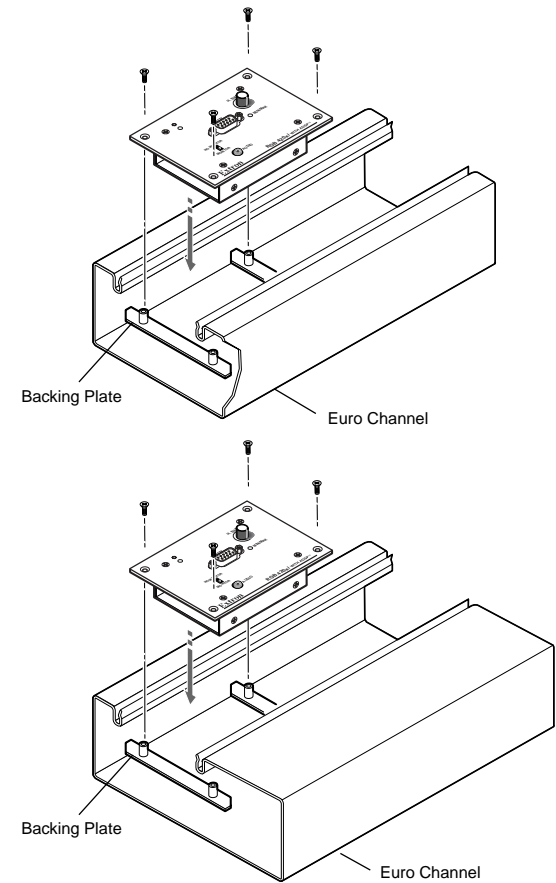
Euro Channel versions

The RGB 460*xi*, RGB 468*xi*, RGB 472*xi*, and RGB 478*xi* are available in a Euro Channel (EC) version. The front and rear panel features, cabling requirements, and testing/troubleshooting procedures are identical to the non-EC models.

Euro Channel installation

Once the EC interface has been cabled and tested, the interface can be installed in the Euro Channel.

1. Remove power from the interface by disconnecting the power supply.
2. Mount the interface to the Euro Channel by attaching the faceplate to the two rear backing plates using the four #4-40 mounting screws. See the illustrations below for various mounting examples.



Euro Channel installation

Pre-installation testing/troubleshooting

Before installing the interface into the wall or furniture, test the system to verify that the connections and settings are correct.

Apply power to the interface. The power/signal LED on the interface will light yellow to indicate that the interface is receiving power.

If the LED does not light, check the wiring at both the interface and the power supply, and ensure that the power supply is connected to a power source.

NOTE If the input signal has sync on green, the LED will not change from yellow to green

If the image does not appear or there is no sound

1. Make sure that all the devices are powered on.
2. Ensure that the connectors are wired correctly at both ends of the cables. Audio cables must be wired for an unbalanced stereo input signal and for a balanced or an unbalanced stereo output signal.
3. If input is from a laptop computer and no picture appears, use a laptop breakout cable for the input connection. Check the computer's user's guide or contact Extron to determine if special commands are required to output video to the external video port. Also, many laptops' screens shut off after the external video port is activated.
4. Call the Extron S3 Sales and Technical Support Hotline if the image still does not appear or there is no sound.

If the image is not displayed correctly

1. If the picture is too bright or dark, or if the edges of the image seem to exceed their boundaries, or if thin lines and sharp edges look thick and fuzzy, change the gain setting.
2. If the picture appears and is stable, but it has ghosting or blooming, verify that the video input is properly terminated. If the problem is not resolved by changing the termination, try using a different input cable. Poor quality or damaged cable can cause ghosting or blooming.
3. If the picture still is not displayed correctly, call the Extron S3 Sales and Technical Support Hotline.

If the interface does not respond to horizontal shifting

1. If the picture does not move on screen when the horizontal shift control knob is rotated, DDSP is in use. Set the DDSP DIP switch to Off.

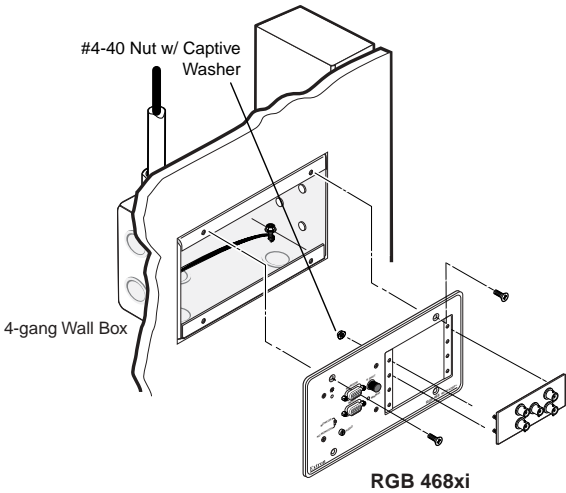
Once the system has been cabled and tested, the interface can be installed in the wall or furniture. If optional AAP or mini-AAP devices are being installed (RGB 468xi, RGB 468 Mxi, RGB 478xi or RGB 478 Mxi only), see the following section "Mounting the optional AAP device". To mount the interface to a wall box, see "Mounting the interface to the wall box".

Mounting the optional AAP device

The interface and any optional architectural adapter plates (AAPs) or mini-AAPs must be cabled before the interface is installed in a wall or furniture. The screws needed for

installing the optional AAP devices are built into its front panel and hex screws are provided with mini AAP devices, so no additional screws will be needed.

1. Before any cables are attached to an AAP device, secure the optional AAP devices to the faceplate with the provided captive washers and #4-40 nuts, or the 3/32" hex screws (mini AAPs).



Mounting the optional AAP device (standard AAP device shown)

2. Follow steps 3 through 9 in the "Installation Overview" section of this guide. For step 8 (mounting the interface to the wall box), see the section on "Mounting the interface to the wall box".

This guide shows power requirements and physical specifications only. For electrical and functional specifications, refer to the user's manual specific to your product.

Installation Specifications

Power	100VAC to 240VAC, 50/60 Hz, 5 watts, external, autoswitchable; to a 9 to 24VDC, 0.20 A power supply. Product requires a 0.2 A (minimum). (A 12VDC, 1 A power supply is included.)
Temperature/humidity	Storage -40° to +158°F (-40° to +70°C) / 10% to 90%, non condensing Operating +32° to +122°F (0° to +50°C) / 10% to 90%, non condensing

Installation, cont'd

- Rack mount..... No, but wall or furniture mountable
- Enclosure type Metal
- Enclosure dimensions — **RGB 460*xi*, RGB 472*xi***
- Plate 4.5" H x 4.6" W (11.4 cm H x 11.7 cm W) (2-gang)
- Interface back enclosure. 2.7" H x 3.3" W x 1.1" D
 (6.9 cm H x 8.4 cm W x 2.8 cm D)
 (Depth excludes front panel connectors and controls.)
- Enclosure dimensions — **RGB 464*xi*, RGB 474*xi*, RGB 468 M*xi*, RGB 478 M*xi***
- Plate 4.5" H x 6.4" W (3-gang)
 (11.4 cm H x 16.3 cm W)
- Interface back enclosure. 2.7" H x 3.3" W x 1.1" D
 (6.9 cm H x 8.4 cm W x 2.8 cm D)
 (Depth excludes front panel connectors and controls.)
- Enclosure dimensions — **RGB 460*xi* Dual, RGB 468*xi*, RGB 478*xi***
- Plate 4.50" H x 8.33" W (4-gang)
 (11.43 cm H x 21.15 cm W)
- Interface back enclosure. 2.7" H x 3.3" W x 1.1" D
 (6.9 cm H x 8.4 cm W x 2.8 cm D)
 (Depth excludes front panel connectors and controls.)
- Enclosure dimensions — **RGB 460*xi* EC, RGB 472*xi* EC**
- Faceplate..... 3.2" H x 4.4" W (8.0 cm H x 11.2 cm W)
- Interface enclosure..... 2.7" H x 3.3" W x 1.1" D
 (6.9 cm H x 8.4 cm W x 2.8 cm D)
 (Depth excludes connectors and controls.)
- Enclosure dimensions — **RGB 468*xi* EC, RGB 478*xi* EC**
- Faceplate..... 3.2" H x 7.7" W (8.0 cm H x 19.5 cm W)
- Interface enclosure..... 2.7" H x 3.3" W x 1.1" D
 (6.9 cm H x 8.4 cm W x 2.8 cm D)
 (Depth excludes connectors and controls.)

Accessories

Wall/Junction box	Part number
2-gang J-box, 2.5" deep	980084
3-gang J-box, 2.5" deep	980083
4-gang J-box, 2.5" deep	980097



RGB 400*xi* Series

Appendix A

Templates

Cut-out Templates

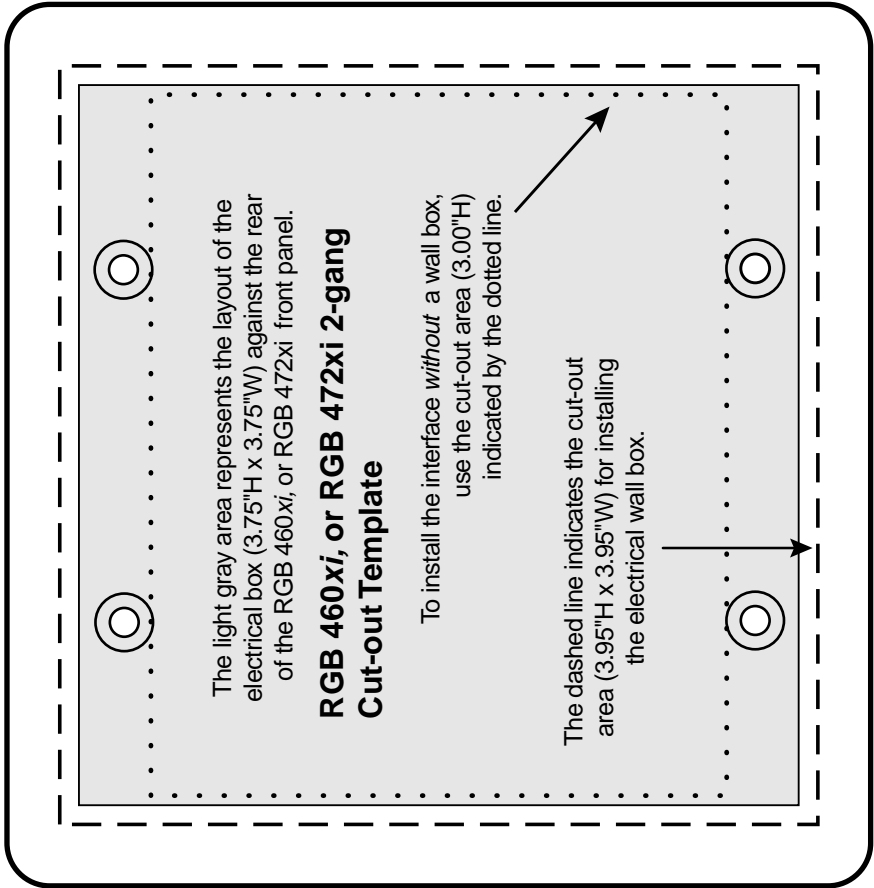
Dimensions and Templates

Cut-out Templates

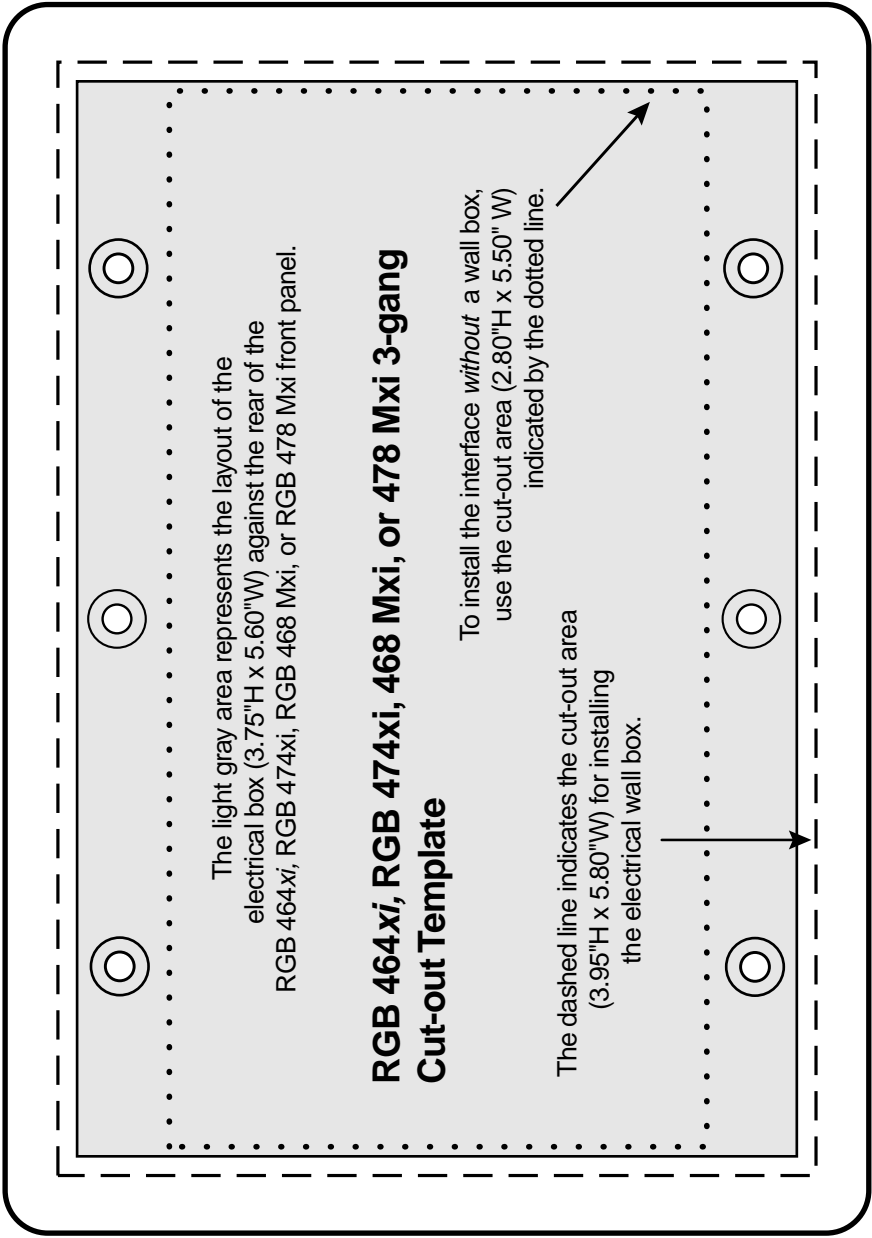
All the templates in this section are actual size. Also, they all include the recommended 0.1" (0.25 cm) clearance on all sides of the electrical wall box to allow room for the raised areas surrounding the knockouts.

The dashed line in each template indicates the cut-out area for installing a wall box. If you plan to install the interface without a wall box, use the smaller cut-out area indicated by the dotted lines.

Use the following templates as a guide for cutting a hole in a wall or furniture for the 2-, 3-, and 4-gang size electrical boxes in order to install the appropriate interface.



RGB 460xi, RGB 472xi Cut-out Template



RGB 464xi, RGB 474xi, RGB 468 Mxi, RGB 478 Mxi Cut-out Template

